

Siwei Guo

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Education

Northeastern University

Seattle, WA

M.S. in Information Systems | Computer Software Engineering GPA: 3.79/4.0

Sept. 2019 - Dec. 2021

Shanghai University of Electric Power

Shanghai, China

B.S. in Electrical Engineering

Sept. 2014 - Jun. 2018

Skills

Programming Languages Java · JavaScript · C/C++ · Python

Web Development React.JS · Node.JS(Express) · Spring Boot · HTML · CSS · GraphQL

Cloud/Database/Tools AWS · MongoDB/Atlas · DynamoDB · Redis · Git · Maven · Postman · Ngrok

Experience

Boonoob - Fabulous Technology Inc.

San Francisco, CA

Software Engineer Intern - Full Stack | Node.JS · React.JS · Redux · MongoDB

Oct. 2020 - Dec. 2020

- Utilized Agile Software Development methodology to design and build a social network with the product team to connect people and boost the gig economy
- Debugged the REST APIs for posting, commenting and pagination, upgraded the APIs by adding sorting algorithms to optimize the performance, migrated the database to MongoDB Atlas to improve availability
- Worked with UI/UX designer to create a responsive and interactive front end with React.JS and simple animations
- Collaborated with teammates by using GitLab and Ngrok, wrote documentation for every component and API
- Boosted the development of Boonoob to raise over \$50k as start-up capital on WeFunder, gained over 300 users and generated over \$10k revenue for the users in the first 2 weeks in the beta stage

Internet of Things Scientific Research Institute

Fujian, China

Software Engineer Intern | Java · Spring Boot · MySQL

Jul. 2017 - Sept. 2017

- Redesigned Tomcat web servers for 2 different smart home enterprise applications with Java and Spring Boot
- Facilitated the development of products and generated \$40k revenue for the institute with the development team

Projects

Storefront | Online Shopping Platform

Seattle, WA

Personal | Node.JS · React.JS · MongoDB Atlas · AWS · Algolia · Stripe

Feb. 2021 - Present

- Applied separation of concerns architecture to build robust application, used AWS S3 for media storage, Atlas for user data and AWS EC2 for API resources to reduce dependability, improve availability and server performance
- Designed user workflow and built features, including search, cart, posting items, payment, rating, requesting returns and reviewing orders
- Implemented OAuth security flow by adding middleware for REST APIs to verify access token and refresh token so that the data and resources can be secured while the application stays stateless
- Worked with Algolia and Redis to index data of items in cloud, cache search results and valid tokens to improve search accuracy, optimize speed by over 200% and avoid unnecessary API calls
- Integrated Stripe payment for better transaction experience and security

Blackboard | School Management System

Seattle, WA

Course Project | Java · Spring Boot · AWS · DynamoDB

Feb. 2020 - Apr. 2020

- Engineered a web server that makes it easier for students and school staffs to manage the courses
- Devised the data modelings and REST APIs, and implemented the server with Java and Spring Boot
- Mapped objects to AWS DynamoDB for better performance and scalability
- Created the front end page for users to sign up and log in to manage their courses and information
- Hosted the web application on AWS Beanstalk to make it highly available for more users